

**TOWN OF DAVIE  
TOWN COUNCIL AGENDA REPORT**

**TO:** Mayor and Councilmembers

**FROM/PHONE:** Bruce Taylor/954-327-3741

**PREPARED BY:** Heidi G. Klemm

**SUBJECT:** Resolution

**AFFECTED DISTRICT:** Townwide

**ITEM REQUEST:** **Schedule for Council Meeting**

**TITLE OF AGENDA ITEM:** CONTRACT - A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, AUTHORIZING THE MAYOR TO SIGN A CONTRACT WITH METCALF & EDDY/AECOM USA., INC. FOR THE GUARANTEED MAXIMUM PRICE (GMP) FOR THE DESIGN/BUILD WATER AND WASTEWATER SYSTEM EXPANSION

**EXECUTIVE SUMMARY:** On January 21, 2009, the Town approved Phase I of the Design/Build contract with AECOM for their new, state of the art, 6 MGD water and 3.5 MGD wastewater facilities. Over this past year, AECOM has completed Phase I consisting of the preliminary design and permitting as well as the submittal of the Guaranteed Maximum Price (GMP) proposed contract for the final design and construction of the new plants. The contract for Phase II has been negotiated and reviewed by staff (B. Taylor, G. Shimun, H. Hyman and K. Kennedy, consulting engineer).

Following is a list of the events or milestones that have occurred, or will need to occur, for AECOM to complete the design and construction of the facilities in accordance with its contract:

- Phase I of design/build contract approved by Town Council on January 21, 2009
- Phase I of contract completed by AECOM and GMP submitted to the Town of Davie on April 26, 2010, in compliance with contract section 6.5
- Review of the GMP by the Town of Davie and its consultants in accordance with section 6.5.2 of the contract
- Meeting with the Town of Davie staff to review their comments
- Revision of the GMP and resubmission to the Town's staff
- Resolution for review and approval of the GMP by the Town Council to be submitted at the May 19, 2010, Town Council meeting.
- Anticipated approval of the GMP on May 19, 2010, by the Town Council in accordance with contract section 6.5.3

**PREVIOUS ACTIONS:** R-2008-240 approving the selection of Metcalf & Eddy/AECOM USA, Inc.

R-2009-021 Phase I of Design/Build Contract

**CONCURRENCES:** Proposal has been reviewed by staff and Town Attorney

**FISCAL IMPACT:** Yes

Has request been budgeted? n/a

This project is being budgeted via the 5 Year Capital Improvements Plan (CIP). Based on the FY 2010-2014 CIP, \$40,000,000 has been approved for FY 2010 while an additional \$70,000,000 is expected to be approved for FY 2011 through FY 2013.

If yes, expected cost: \$101,856,444 (this relates to the Guaranteed Maximum Price)

Account name and number: Capital Outlay – Water & Wastewater Plant  
&  
Infrastructure  
041-1058-536-6436 will be budgeted via the  
5 Year CIP

Additional Comments: The Town is in the process of securing Bonds for financing of this project.

**RECOMMENDATION(S):** Motion to approve resolution

**Attachment(s):** Resolution, Cost Estimate Summary, R2008-240, R2009-021

Contract documents and appendices in their entirety are available for review in the Town Clerk's office as it was too large to attach as part of this submittal.

RESOLUTION NO.

A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, AUTHORIZING THE MAYOR TO SIGN A CONTRACT WITH METCALF & EDDY/AECOM USA., INC. FOR THE GUARANTEED MAXIMUM PRICE (GMP) FOR THE DESIGN/BUILD WATER AND WASTEWATER SYSTEM EXPANSION, AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, it is necessary to expand the Water and Wastewater System in the Town of Davie; and

WHEREAS, the Town completed Phase I of the project which included design and permitting services approved by Resolution R2009-021; and

WHEREAS the Town has negotiated a Guaranteed Maximum Price (GMP) for Phase II of this design/build project in the amount of \$101,856,444.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF DAVIE, FLORIDA.

SECTION 1. The Town Council hereby authorizes the Mayor to sign the Guaranteed Maximum Price (GMP) Contract with Metcalf & Eddy/AECOM USA, Inc. for Phase II of the project at a cost of \$101,856,444.

SECTION 2. The Town Council hereby authorizes the expenditure from the Utilities Department Capital Outlay account (Water and Wastewater Plant and Infrastructure).

SECTION 3. This resolution shall take effect immediately upon its passage and adoption.

PASSED AND ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2010.

\_\_\_\_\_

\_\_\_\_\_

MAYOR/COUNCILMEMBER  
ATTEST:

\_\_\_\_\_  
TOWN CLERK

APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2010.

RESOLUTION NO. R-2008-240

A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, SELECTING THE TEAM OF METCALF & EDDY/AECOM TO PROVIDE DESIGN/BUILD SERVICES FOR WATER AND WASTEWATER SYSTEM EXPANSIONS AND AUTHORIZING THE TOWN ADMINISTRATOR OR HIS DESIGNEE TO NEGOTIATE AN AGREEMENT FOR SUCH SERVICES.

WHEREAS, the Town solicited proposals to provide design/build services for the water and wastewater system expansions; and

WHEREAS, the selection committee has selected Metcalf & Eddy/Aecom as the team best qualified to provide the required services; and

WHEREAS, it is in the Town's best interest to execute a contract for such services.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF DAVIE, FLORIDA:

SECTION 1. The Town Council of the Town of Davie does hereby accept the selection of Metcalf & Eddy/Aecom as the team best qualified to provide the required design/build services and authorizes the Town Administrator or his designee to negotiate an agreement for such services and present that contract for approval at a future meeting date. Should no agreement be reached with the highest ranking firm, then the Town Administrator or his designee shall negotiate with the next ranked firm and present that agreement for approval.

SECTION 2. This resolution shall take effect immediately upon its passage and adoption.

PASSED AND ADOPTED THIS 15<sup>th</sup> DAY OF October, 2008

  
MAYOR/COUNCILMEMBER

Attest:

  
TOWN CLERK

APPROVED THIS 15<sup>th</sup> DAY OF October, 2008

RESOLUTION NO. R-2009-21

A RESOLUTION OF THE TOWN OF DAVIE, FLORIDA, AUTHORIZING THE MAYOR TO SIGN THE CONTRACT WITH METCALF & EDDY/AECOM USA, INC. FOR PHASE I OF THE DESIGN/BUILD CONTRACT FOR THE WATER AND WASTEWATER SYSTEM EXPANSION FOR THE TOWN OF DAVIE.

WHEREAS, it is necessary to expand the Water and Wastewater System at the Town of Davie;  
and

WHEREAS, the Town recently solicited bids for a design/build firm for this project; and

WHEREAS, the Town Council approved the award of the bid for design and construction services for this project to Metcalf & Eddy/AECOM USA, Inc. (R-2008-240) to be executed in two phases;  
and

WHEREAS, the Town negotiated a contract for Phase I of this project for design and permitting.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COUNCIL OF THE TOWN OF DAVIE, FLORIDA.

SECTION 1. The Town Council hereby authorizes the Mayor to sign the Contract with Metcalf & Eddy/AECOM USA, Inc. for Phase I of the project which includes design and permitting services at a cost of \$6,150,000.

SECTION 2. This resolution shall take effect immediately upon its passage and adoption.

PASSED AND ADOPTED THIS 21<sup>st</sup> DAY OF January, 2009.

  
\_\_\_\_\_  
MAYOR/COUNCIL MEMBER

ATTEST:

  
\_\_\_\_\_  
TOWN CLERK

APPROVED THIS 21<sup>st</sup> DAY OF January, 2009.

# TOWN OF DAVIE PROCUREMENT AUTHORIZATION

ACCOUNT NUMBER	BUDGET ITEM & DESCRIPTION	APPROXIMATE COST
040-1058-536-6400	Design-build for new Water and Wastewater System Expansion	\$ 6,000,000 - Phase I \$91,950,000 - Phase II

**METHOD OF PROCUREMENT (check the one that applies)**

- ☐ Open Competitive Bidding  
☐ Piggyback on Contract Number  
☐ Sole Source or Single Source  
☒ Request for Proposals

Okay to override.  
already approved  
via 2008 CIP

**SPECIFICATIONS & LIST OF VENDORS MUST BE ATTACHED**

Signed Bruce Taylor WAF  
Department Head

Have Funds been Reserved Per 37291

Date 7/23/08 Signed MD

Signed [Signature] 7/23/08  
Town Administrator

VENDOR	BIDS SUBMITTED	COST
METCALF + EDDY		RANKED 1 <sup>ST</sup>
CH2M HILL		RANKED 2 <sup>ND</sup>
TETRA TECH		RANKED 3 <sup>RD</sup>

Signed [Signature]  
Procurement Manager

**BID SPECIFICATION COMMITTEE'S RECOMMENDATION**

Vendor	Cost
METCALF + EDDY	RANKED 1 <sup>ST</sup>

**Town of Davie Water and Wastewater System Expansion  
Guaranteed Maximum Price (GMP) Summary**

<b>Work Item</b>	<b>Total</b>
<b>Fixed Price Portion</b>	
Engineering and Permitting	\$4,322,025
Construction Management	\$8,786,951
Manuals, Training, Startp and Commissioning	\$502,818
Bonds and Insurance	\$2,551,362
<b>Total Fixed Portion</b>	<b>\$16,163,155</b>
<b>Reimbursible Portion (Construction Cost-of-Work)</b>	
Sitework & Utilities	\$4,806,752
Building & Services	\$11,748,974
Storage Tanks	\$1,908,453
Process Mechanical	\$5,800,000
Electrical & Instrumentation	\$8,774,636
Production Wells	\$2,792,391
Deep Injection Wells	\$10,417,750
Town Direct-Purchase Equipment	\$25,664,627
Miscellaneous Subs & Equip	\$1,218,000
Temp. Const., Permits & Commissioning	\$1,057,500
Community Relations	\$326,820
<i>Subtotal Reimbursible Portion</i>	<i>\$74,515,903</i>
Contingency on Reimbursible	\$3,725,795
Design-Builder Fee on Reimbursible	\$7,451,590
<b>Total Reimbursible Portion</b>	<b>\$85,693,288</b>
<b>Total Project</b>	<b>\$101,856,444</b>
less Town Direct-Purchase Equipment	\$25,664,627
<b>Total AECOM GMP</b>	<b>\$76,191,817</b>



## Construction Subcontractors

Work Package	Adjusted Bid Price
Injection wells	\$10,417,750
Structures	\$8,069,211
Electrical Installation	\$6,833,521
Process Mechanical install	\$5,800,000
Site Work	\$2,331,455
Raw Water Supply Wells	\$2,346,734
Instrumentation	\$1,941,115
Pre-stressed Storage Tanks	\$1,810,000
UG Utilities	\$1,399,921
HVAC	\$1,353,308
Interior Finishes	\$1,045,000
Plumbing	\$750,369
Site Landscaping	\$449,986
Well pump supply & install	\$445,657
Fencing	\$342,195
Densification	\$280,070
Material handling equipment	\$241,650
Security Systems	\$203,225
Laboratory Cabinets	\$86,211
Fuel Storage	\$98,453
S&E Controls	\$3,125
<b>Total Subcontractors</b>	<b>\$46,248,956</b>

## Major Process Equipment

Equipment or System	Adjusted Bid Price
RO System	\$7,487,000
MBR System	\$4,166,700
MBR Digesters	\$744,990
Generators	\$2,104,485
Degassification/Scrubbers	\$1,613,000
UV Disinfection	\$1,399,000
Switchgear	\$2,368,950
Hypo System	\$1,106,000
Sludge Dewatering	\$574,349
Pump package	\$554,300
Odor Control/Bio Filter	\$550,430
Chemical Feed Systems	\$447,400
Fuel Storage Tanks	\$395,262
Influent Screens	\$378,500
Valve package	\$354,649
Lime Storage & Feed	\$347,635
CO2 system	\$310,000
Grit removal	\$236,725
Extruded Flat Panels	\$268,788
Slide gates	\$102,945
Plant water system	\$104,512
Static Mixers	\$7,605
Scum Pumps	\$24,645
Mixers	\$16,757
<b>Total Equipment</b>	<b>\$25,664,627</b>

### Notes:

Equipment to be purchased by the Town to eliminate sales tax liability

**New Water Treatment Facility and Wastewater Reclamation Facility  
Summary of Project Costs**

<b>Phase One Project Development</b>	<b>\$ 6,150,000</b>
<b>University of Florida Land Purchase</b>	<b>\$ 6,203,000</b>
<b>Phase Two Guaranteed Maximum Price (GMP):</b>	<b>\$101,856,444</b>
<b>Licensed Design Professional to serve as the Town's representative during construction</b>	<b>\$ 735,085</b>
<b>Closure of North WTP after completion of New WTP</b>	<b>\$ 500,000</b>
<b>Offsite Training of Utility Plant Operators in Operation of Membrane Treatment Systems</b>	<b>\$ 100,000</b>
<b>Building and Permit Fees</b>	<b>\$ 2,500,000</b>
<b>Engineering Permit Fee</b>	<b>\$ 196,000</b>
<b>Property Appraisals</b>	<b>\$ 6,450</b>
<b>County Agency Permit/Review Fees</b>	<b>\$ 45,130</b>
<b>Costs for issuance of Bonds</b>	<b>\$ 800,000</b>
<b>GRAND TOTAL</b>	<b>\$119,092,109</b>

## New Water Treatment Facility and Wastewater Reclamation Facility Project Costs

### **Phase One Project Development Schedule of Values includes:**

Task 1 - Project Management \$413,000  
Task 2 - Planning \$249,000  
Task 3 - Floridan Aquifer Test Well \$1,112,000  
Task 4 - Conceptual Design \$587,000  
Task 5 - Site Investigations \$421,000  
Task 6 - Wastewater Pilot Studies \$632,000  
Task 7 - Preliminary Design \$1,985,000  
Task 8 - Pre-Construction Services \$391,000  
Task 9 - Permitting Assistance \$242,000  
Task 10 - Funding Assistance \$67,000  
Task 11 - Public Outreach \$51,000  
Total **\$6,150,000**

### **University of Florida Land Purchase**

Total **\$6,203,000**

### **Guaranteed Maximum Price (GMP) Summary**

- Engineering and Permitting \$4,322,025
- Construction Management \$8,786,951
- Manuals, Training, Startp and Commissioning \$502,818
- Bonds and Insurance \$2,551,362

Total Fixed Portion \$16,163,155

- Sitework & Utilities \$4,806,752
- Building & Services \$11,748,974
- Storage Tanks \$1,908,453
- Process Mechanical \$5,800,000
- Electrical & Instrumentation \$8,774,636
- Production Wells \$2,792,391
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- Temp. Const., Permits & Commissioning \$1,057,500
- Community Relations \$326,820
- Subtotal Reimbursable Portion \$74,515,903
- Contingency on Reimbursable \$3,725,795
- Design-Builder Fee on Reimbursable \$7,451,590

Total Reimbursable Portion \$85,693,288

Total **\$101,856,444**